

## CLAIMS:

1. A vehicle interior rearview mirror assembly comprising a housing having a front end for releasable attachment to the interior surface of the vehicle windshield, a rear end having a connection which adjustably mounts a rearview mirror unit to the housing, the housing adapted to contain a rain sensor and a biasing member which engages and biases the rain sensor into  
5 contact with the interior surface of the windshield, the housing containing at least one further electrical component.
2. A vehicle interior rearview mirror assembly comprising a housing having a front end for releasable attachment to the interior surface of the vehicle windshield, a rear end having a connection which adjustably mounts a rearview mirror unit to the housing, the interior of the housing comprising at least one compartment, the compartment having an opening at the front  
5 end of the housing for facing in use towards the windshield and, the compartment adapted to contain a rain sensor and to bias the rain sensor forwardly through the first opening into contact with the interior surface of the windshield, and the housing also containing at least one further electrical component.
3. A vehicle interior rearview mirror assembly comprising a housing having a front end for releasable attachment to the interior surface of the vehicle windshield, a rear end having a connection which adjustably mounts a rearview mirror unit to the housing, the interior of the housing comprising a compartment, the compartment having a first opening at the front end of  
5 the housing for facing in use towards the windshield and a second opening on at least one side of the housing, the compartment containing a rain sensor and a biasing member which biases the rain sensor forwardly through said first opening into contact with the interior surface of the windshield, and the compartment containing at least one further electrical component accessible through said second opening.
4. A vehicle interior rearview mirror assembly comprising a housing having a front end for releasable attachment to the interior surface of the vehicle windshield, a rear end having a connection which adjustably mounts a rearview mirror unit to the housing, and an internal wall subdividing the interior of the housing into first and second compartments, said first

- 5 compartment having a first opening at said front end of said housing for facing in use towards the windshield and said second compartment having a second opening on at least one side of said housing, said first compartment containing a rain sensor, and said second compartment containing at least one further electrical component accessible through said second opening.
5. An assembly as claimed in claim 4, further including a removable cover which mates with said housing around said second opening and in use extends along the windshield towards the vehicle header, and electrical leads for said rain sensor and said further electrical component which in use are routed under the cover to the header.
6. An assembly as claimed in claim 5, wherein said cover is made of a polymeric material which snap-engages said housing around said second opening.
7. An assembly as claimed in claim 5, wherein said cover includes an antenna.
8. An assembly as claimed in claim 5, further including a rearview mirror unit which includes an electrically operated rearview mirror and electrical leads for said mirror, said leads when in use being routed under said cover to the vehicle header.
9. An assembly as claimed in claim 4, wherein said further electrical component comprises a printed circuit board bearing a compass sensor.
10. An assembly as claimed in claim 4 further including a biasing member which biases said rain sensor forwardly through said first opening into contact with the interior surface of the windshield.
11. A vehicle interior rearview mirror assembly comprising a housing having a front end for releasable attachment to the interior surface of the vehicle windshield, a rear end having a connection which adjustably mounts a rearview mirror unit to the housing, a first opening at said front end of said housing for facing in use towards the windshield, and a second opening on at least one side of said housing for facing in use towards the top edge of the windshield, said housing containing a rain sensor, and at least one further electrical component accessible through
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said second opening, said assembly further including a removable cover which mates with said housing around said second opening and in use extends along the windshield towards the vehicle header, and electrical leads for said rain sensor and said further electrical component which in  
10 use are routed under said cover to the vehicle header.

12. An assembly as claimed in claim 11 further including a biasing member which biases said rain sensor forwardly through said first opening into contact with the interior surface of the windshield.